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FUJITSU GENERAL LTD

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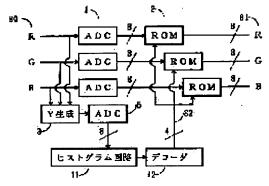
(72)Inventor:

SUZUKI SUSUMU

(54) DYNAMIC GAMMA CORRECTION CIRCUIT

PURPOSE: To obtain excellent display image quality by applying optimum gamma correction in response to a pattern of an input signal when a signal with large APL fluctuation such as a television video image is displayed on a device whose brightness contrast is hardly taken such as a liquid crystal display device or a plasma display device(PDP).

CONSTITUTION: A brightness level of an input video signal S0 is divided into plural levels by a histogram circuit 11, a frequency is taken by each division and plural frequency levels are provided to each division of each brightness level by a decoder 12, and the frequency distribution is divided based on the frequency level. The result is used for a selection signal S2 of gamma correction characteristic to select a gamma correction characteristic, a ROM 2 is used to obtain dynamic gamma correction proper to the input video



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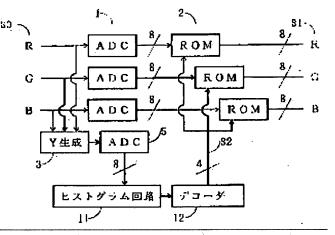
(72)発明者: 鈴木 進

(54) ダイナミックガンマ補正回路

(57)【要約】

【目的】液晶ディスプレイやプラスマディスプレイ(PDP)のように、海度コントラストの取りにくいデバイスに、テレビ映像のようなAPL変動の大きい信号を表示するとき、入力信号の終柄に応じた最適なガンマ補正を行い、良好な表示画質を得る

は、人力映像信号SOの輝度レベルを、ヒストグラム回路 【構成】入力映像信号SOの輝度レベルを、ヒストグラム回路 11で複数個の区分に分けその各々の区分での度数を取 り、デコーダ12で各輝度レベルの区分毎に複数個の度数レ ベルを設けその度数レベルで度数分布を区分けし、この結 果をガンマ補正特性の選択信号S2としてガンマ補正特性を 選択し、ROM2を用いて入力映像信号に適応したダイナミッ クなガンマ補正を行う。



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